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1. (TWICE AMENDED) An interactive data analysis support apparatus supporting the analysis of data, said apparatus comprising:
random extraction means for extracting data automatically at random from a database;
cross tabulation display means for displaying according to summing up conditions to set a range to be displayed a cross tabulation in which the data extracted [sample] at random from [a] the database by the random extraction means is cross summed up;
cell specifying means for specifying at least one cell among a number of cells constituting said cross tabulation; and
graph display means for displaying the data [sampled] extracted at random from the database as a graph within the range of the cell specified by said cell specifying means.

2. (TWICE AMENDED) An interactive data analysis support apparatus according to claim 1, wherein said graph display means comprises display limiting means for limiting the range of the data to be displayed [by an operation in a graph].

3. (TWICE AMENDED) An interactive data analysis support apparatus according to claim 2, wherein said graph display means comprises storage means for storing the range of the data to be displayed which is limited by said display limiting means as a summing up condition used by said cross tabulation display means, and said cross tabulation display means is capable of displaying cross tabulation in which the data [sampled] extracted at

random from [a] the database is cross-summed up according to the summing up condition stored by said storage means.

4. (AS ONCE AMENDED) An interactive data analysis support apparatus according to claim 1, wherein said graph display means comprises rearranging means for automatically rearranging in a graph the data to be displayed according to predetermined conditions.

5. (TWICE AMENDED) An interactive data analysis support apparatus according to claim 4, wherein said graph display means comprises storage means for storing data to be displayed which is rearranged by said rearranging means as a summing up condition used by said cross tabulation display means, and said cross tabulation display means is capable of displaying cross tabulation in which the data [sampled] extracted at random from [a] the database is cross-summed up according to the summing up condition stored by said storage means.

6. (TWICE AMENDED) An interactive data analysis support apparatus according to claim 1, wherein said graph display means comprises:

automatic analyzing means for finding a new display item by extracting a characteristic of the data [sampled] extracted at random from said database, and display item-adding means for adding the new display item found by said automatic analyzing means to the graph.

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7. (TWICE AMENDED) An interactive data analysis support apparatus according to claim 6, wherein

said graph display means comprises storage means for storing the new display item added by said display item-adding means as a summing up condition used by said cross tabulation display means, and said cross tabulation display means is capable of displaying cross tabulation in which the data [sampled] extracted at random from a database is cross-summed up according to the summing up condition stored by said storage means.

8. (TWICE AMENDED) An interactive data analysis support apparatus according to claim 1, wherein the data [sampled] extracted at random from said database is an aggregate of records composed of a number of data items.

10. (NEVER AMENDED) An interactive data analysis support apparatus according to claim 8, wherein said graph display means has a structure such that a graph is displayed designating said data item as an axis.

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11. (NEVER AMENDED) An interactive data analysis support apparatus according to claim 10, wherein said graph display means comprises the same number of axes as the data items constituting said records, and plots a point corresponding to a value of each data item with regard to each of said records, to thereby display a graph in which points plotted on adjacent axes are connected by a segment.

12. (TWICE AMENDED) A medium on which is recorded an interactive data analysis support program for supporting the analysis of data wherein there is recorded at least a program for executing:

a random extraction operation extracting data automatically at random from a database;

a cross tabulation display [function for] operation displaying according to summing up conditions to set a range to be displayed a cross tabulation in which the data [sampled] extracted at random from [a] the database by the random extraction operation is cross-summed up;

a cell specifying [function for] operation specifying at least one cell among a number of cells constituting said cross tabulation; and

32 a graph display [function for] operation displaying the data [sampled] extracted at random from the database as a graph within the range of the cell specified by said cell specifying [function] operation.

13. (TWICE AMENDED) A medium on which is recorded an interactive data analysis support program according to claim 12, wherein said graph display [function] operation comprises a display limiting [function] operation for limiting the range of the data to be displayed [by an operation in a graph].

14. (TWICE AMENDED) A medium on which is recorded an interactive data analysis support program according to claim 13, wherein said graph display [function] operation comprises a storage [function] operation for storing the range of the data to be

displayed which is limited by said display limiting [function] operation as a summing up condition used by said cross tabulation display [function] operation; and

said cross tabulation display [function] operation is capable of displaying cross tabulation in which the data [sampled] extracted at random from a database is cross-summed up according to the summing up condition stored by said storage [function] operation.

15. (TWICE AMENDED) A medium on which is recorded an interactive data analysis support program according to claim 12, wherein said graph display [function] operation comprises a rearranging [function] operation for automatically rearranging in a graph the data to be displayed according to predetermined conditions.

16. (TWICE AMENDED) A medium on which is recorded an interactive data analysis support program according to claim 15, wherein said graph display [function] operation comprises a storage [function for] operation storing data to be displayed which is rearranged by said rearranging [function] operation as a summing up condition used by said cross tabulation display [function] operation, and said cross tabulation display [function] operation is capable of displaying cross tabulation in which the data [sampled] extracted at random from a database is cross-summed up according to the summing up condition stored by said storage [function] operation.

17. (TWICE AMENDED) A medium on which is recorded an interactive data analysis support program according to claim 12, wherein said graph display [function]

operation comprises:

an automatic analyzing [function] operation for finding a new display item by extracting a characteristic of the data [sampled] extracted at random from said database, and a display item-adding function for adding the new display item found by said automatic analyzing [function] operation to the graph.

18. (TWICE AMENDED) A medium on which is recorded an interactive data analysis support program according to claim 17, wherein said graph display [function] operation comprises a storage [function] operation for storing the new display item added by said display item-adding [function] operation as a summing up condition used by said cross tabulation display [function] operation, and said cross tabulation display [function] operation is capable of displaying cross tabulation in which the data [sampled] extracted at random from a database is cross-summed up according to the summing up condition stored by said storage [function] operation.

19. (TWICE AMENDED) A medium on which is recorded an interactive data analysis support program according to claim 12, wherein the data [sampled] extracted at random from said database is an aggregate of records composed of a number of data items.

21. (ONCE AMENDED) A medium on which is recorded an interactive data analysis support program according to claim 19, wherein said graph display [function] operation has a structure such that a graph is displayed designating said data item as an axis.

22. (ONCE AMENDED) A medium on which is recorded an interactive data analysis support program according to claim 21, wherein said graph display [function] operation comprises the same number of axes as the data items constituting said records, and plots a point corresponding to a value of each data item with regard to each of said records, to thereby display a graph in which points plotted on adjacent axes are connected by a segment.

23. (ONCE AMENDED) An interactive data analysis support apparatus for supporting the analysis of data, said apparatus comprising:

33 a random extraction device automatically extracting data at random from a database;

a cross tabulation display device displaying according to summing up conditions to set a range to be displayed a cross tabulation in which the data automatically [sample] extracted at random from [a] the database is cross summed up;

a cell specifying device specifying at least one cell among a number of cells constituting said cross tabulation; and

a graph display [means for] device displaying the data [sampled] extracted at random from the database as a graph within the range of the cell specified by said cell specifying means.

24. (ONCE AMENDED) An interactive data analysis support apparatus according to claim 23, wherein said graph display [means] device comprises display limiting device for limiting the range of the data to be displayed by an operation in a graph.